



University of Salamanca is no place (only) for humanities

A STEM approach and beyond

Prof. Dr. Francisco José García-Peñalvo

Computer Science Department

Research Institute for Educational Science

GRIAL Research Group

University of Salamanca

fgarcia@usal.es

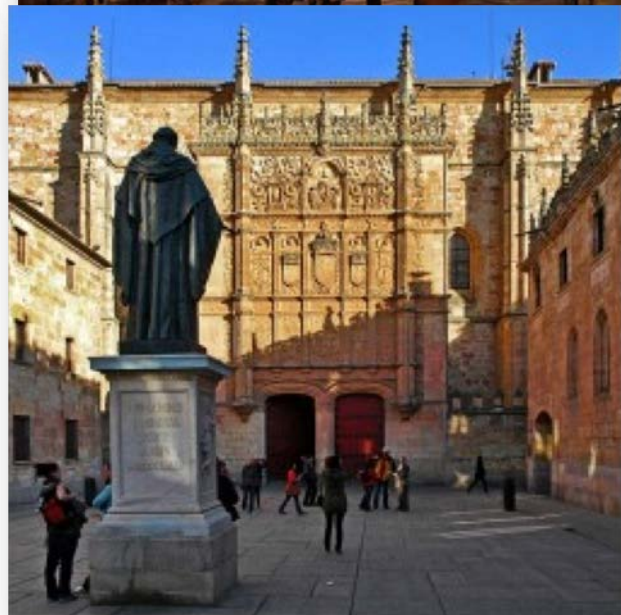
<http://grial.usal.es>

<http://twitter.com/frangp>

Coimbra Group Annual Conference and General Assembly

STEM Working Group

Salamanca, May 30th 2018





The first university in the Hispanic world

- The University of Salamanca, which was founded in 1218 by Alfonso IX of León, is considered to be the oldest of existing Ibero-American Universities
- It is currently celebrating the commemoration of its **eight centuries**
- From the beginning, the University of Salamanca has been oriented to establish connections with other centers of higher education, achieving its international status when the Spanish Crown founded the first Universities of the American continent
- Its statutory framework inspired 80% of Latin-American Universities, which consider the University of Salamanca as their *Alma Mater*





Aims of the University of Salamanca

- The University of Salamanca currently combines tradition and a long-term approach, in order to achieve high levels of scientific and academic excellence



Location

The wide geographical extension covered includes 9 administrative and academic campuses in Ávila, Zamora, Béjar and Salamanca





STEM in the University of Salamanca



Members

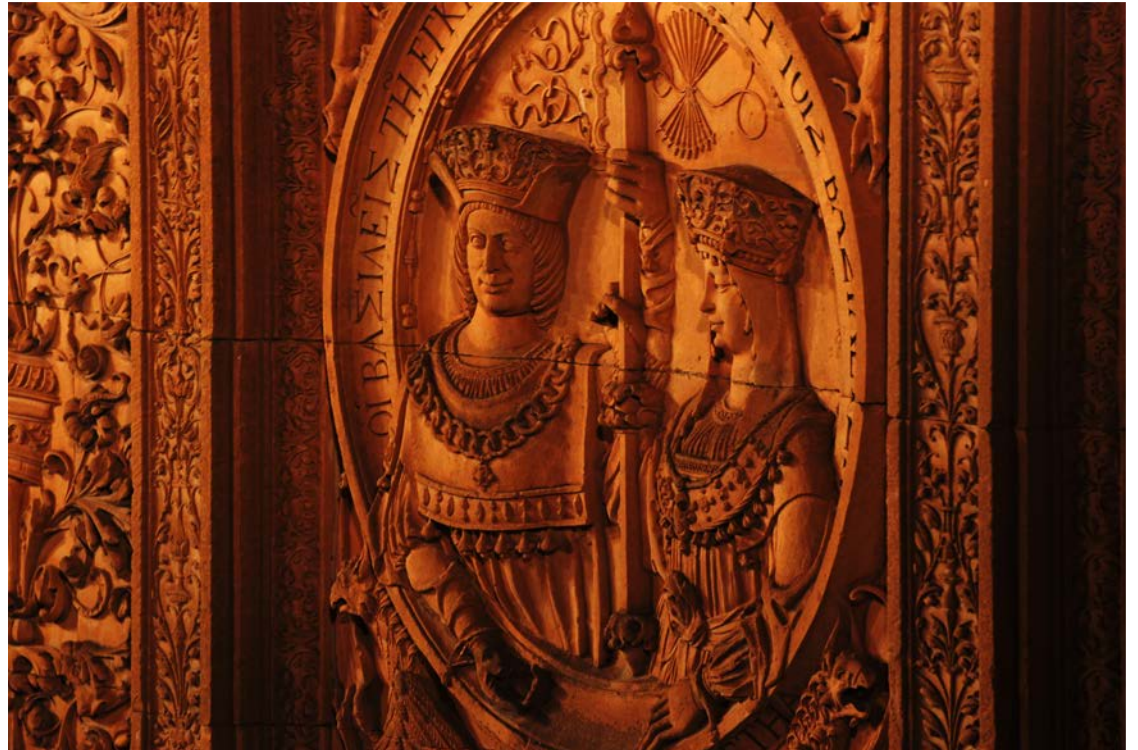
- Its 30,000 students and 2,500 teachers approximately make it an average-sized university
- With 1,750 full-time teachers, more or less, the staff is divided 50% related to Social and Legal Sciences and Arts and Humanities and 50% STEM disciplines (Engineering and Architecture, Health Sciences, Sciences)





Members

- It is the third University in Spain as far as attracting students from other regions is concerned
- Indeed, more than half of its students come from outside the boundaries of Castilla and León, a percentage that is steadily growing





Undergraduate Degrees

It is a public university that offers 76 undergraduate degrees

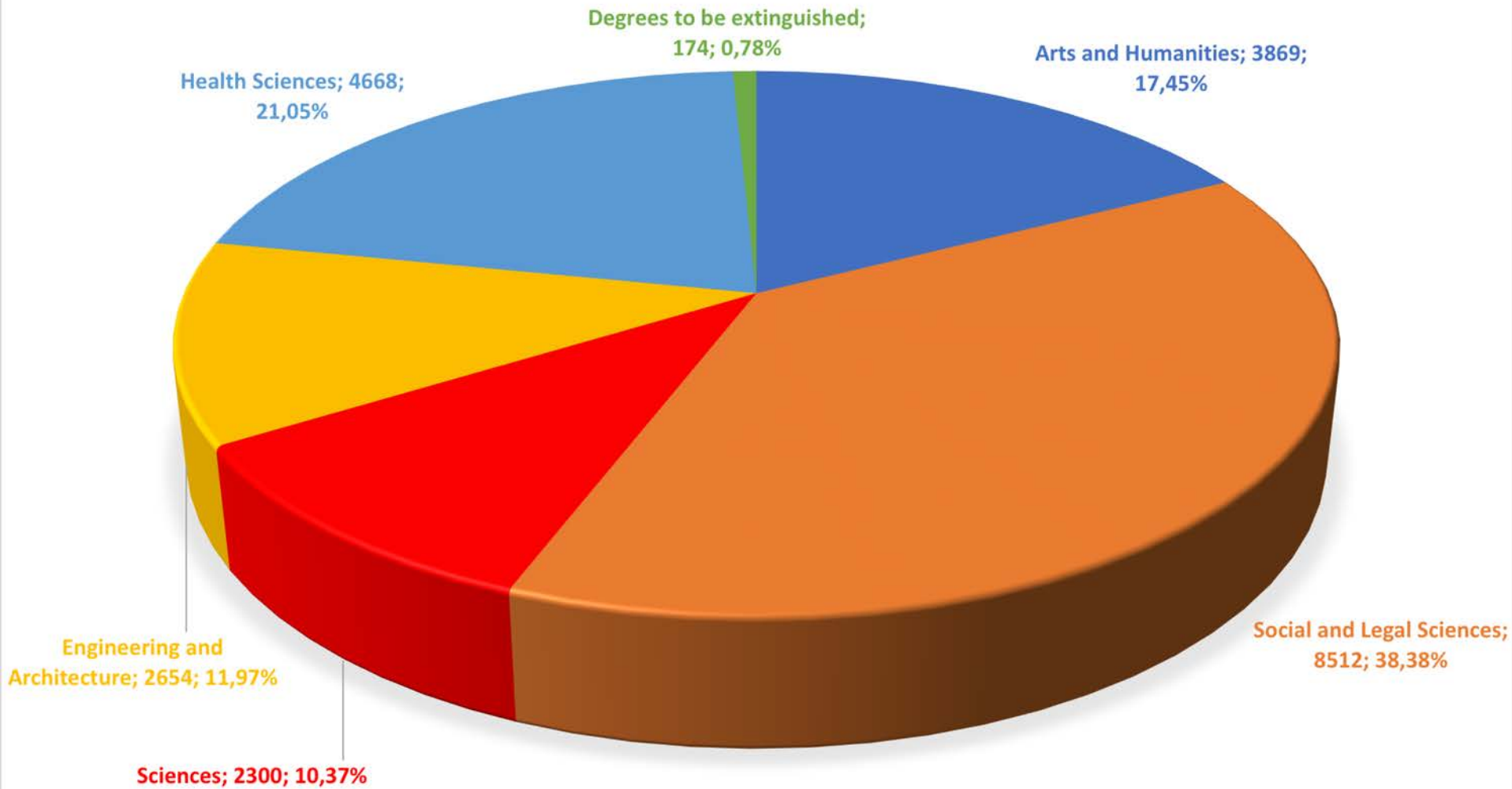
- 27 - Social and Legal Sciences
- 19 - Arts and Humanities
- 22 - Engineering and Architecture
- 10 - Health Sciences
- 8 - Sciences





Undergraduate Degrees

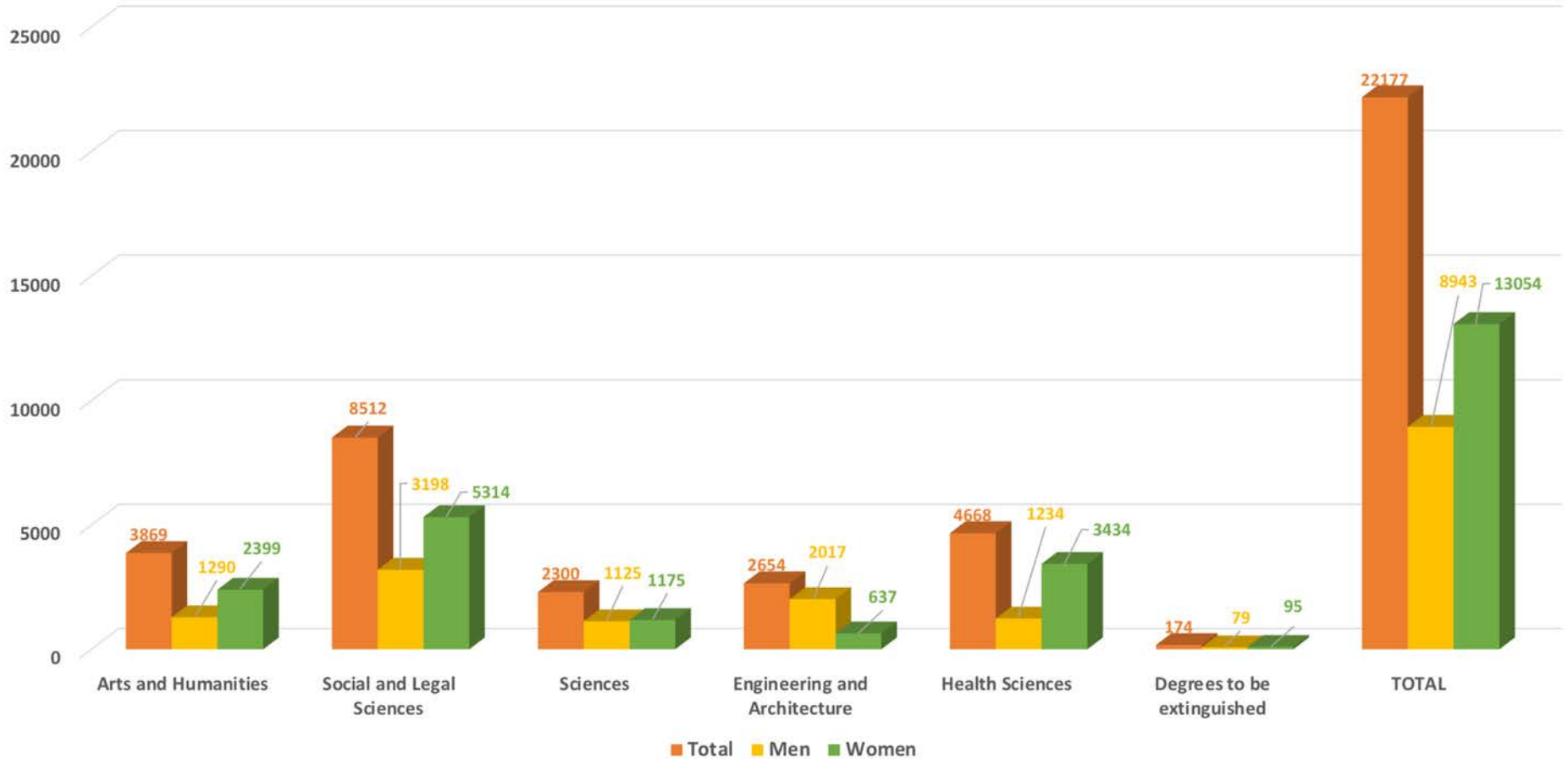
ENROLLED STUDENTS IN UNDERGRADUATE DEGREES





Undergraduate Degrees

UNDERGRADUATE STUDENTS ORGANIZED BY GENDER AND KNOWLEDGE FIELD





Master and Doctoral Programs

The University of Salamanca offers **69 official MASTER PROGRAMS** related to specific areas of knowledge

Furthermore, graduate students may enroll in **40 PhD PROGRAMS**

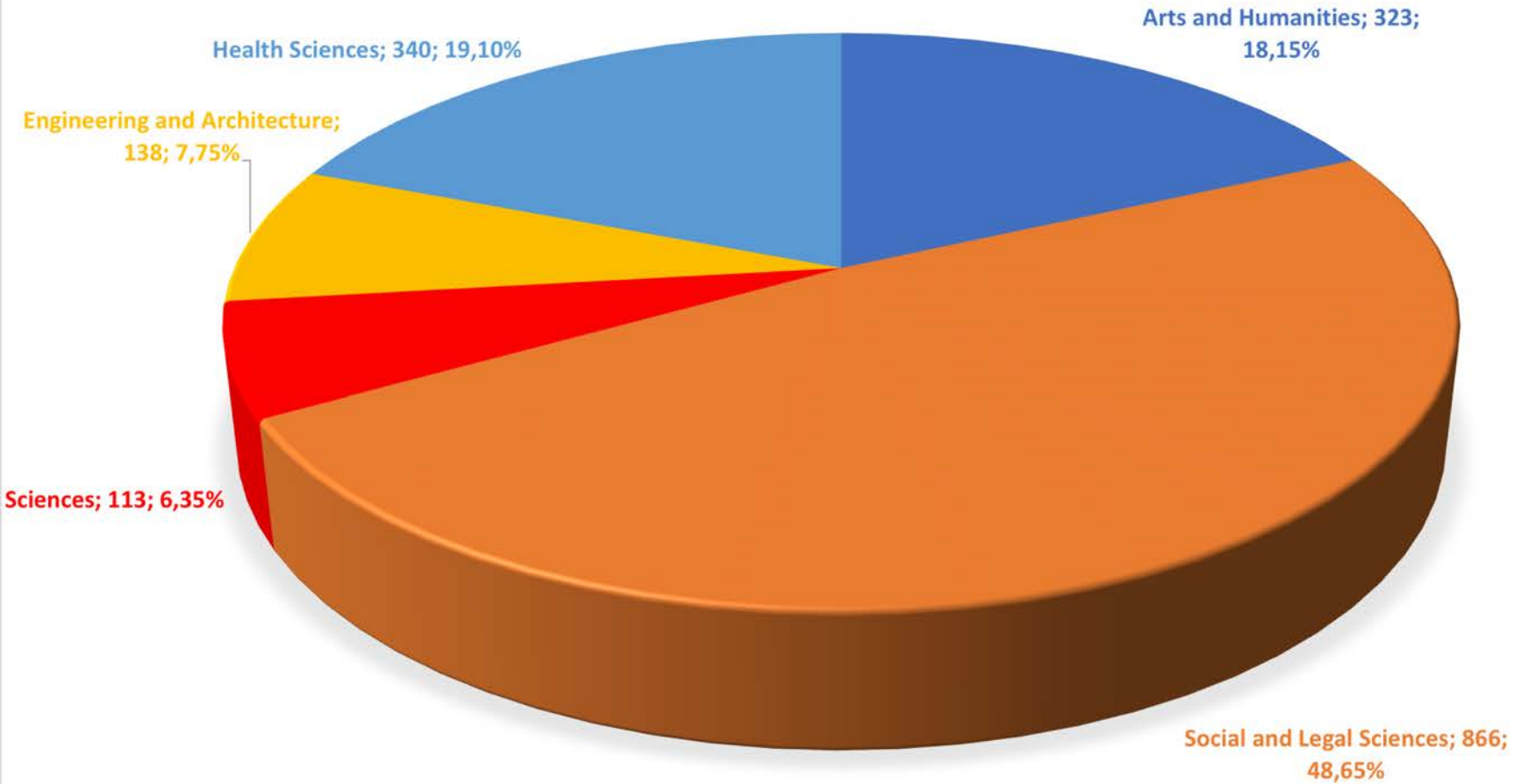
- **10 - Social and Legal Sciences**
- **9 - Arts and Humanities**
- **3 - Engineering and Architecture**
- **8 - Health Sciences**
- **10 - Sciences**





Master and Doctoral Programs

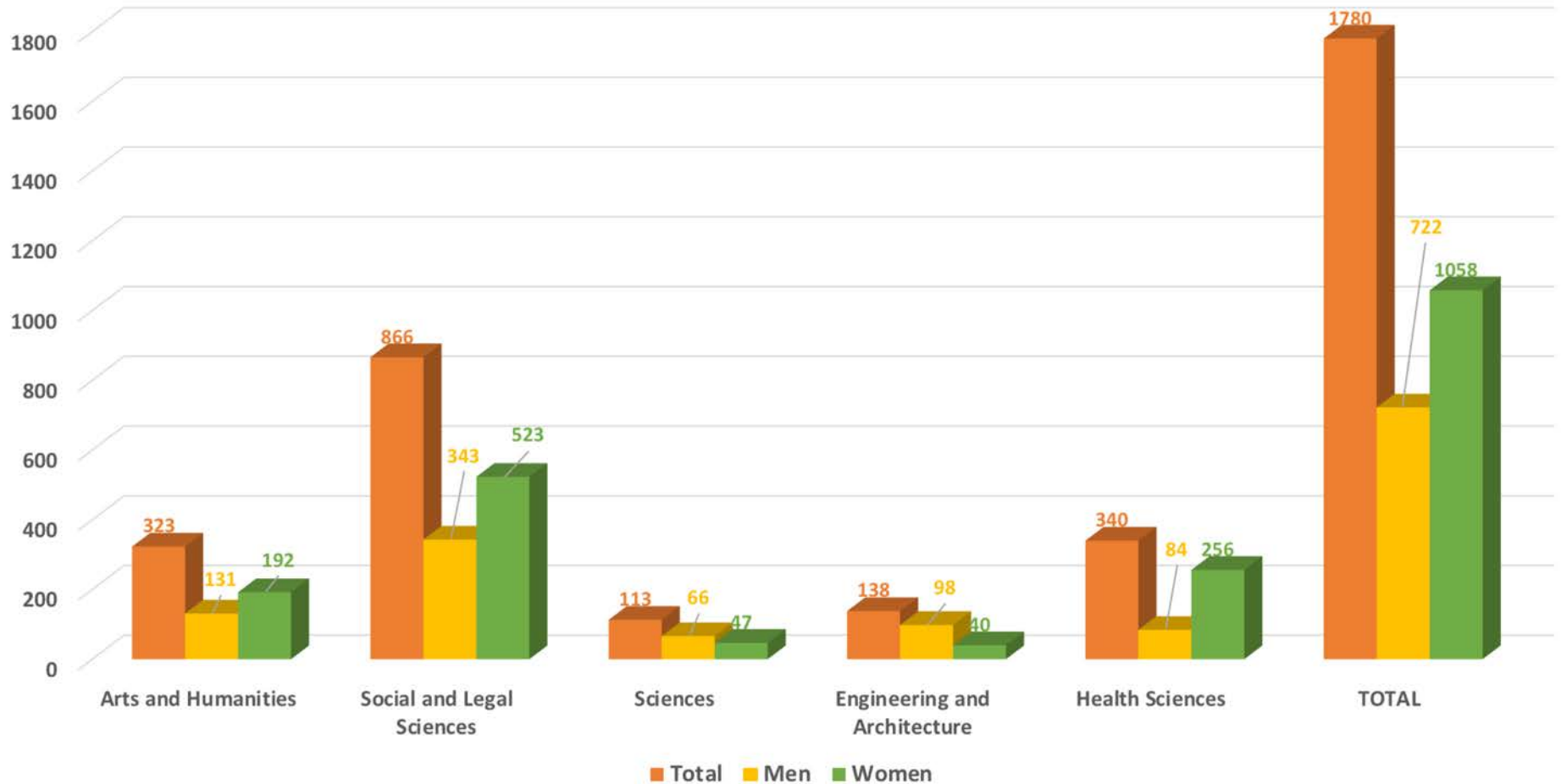
MASTER STUDENTS





Master and Doctoral Programs

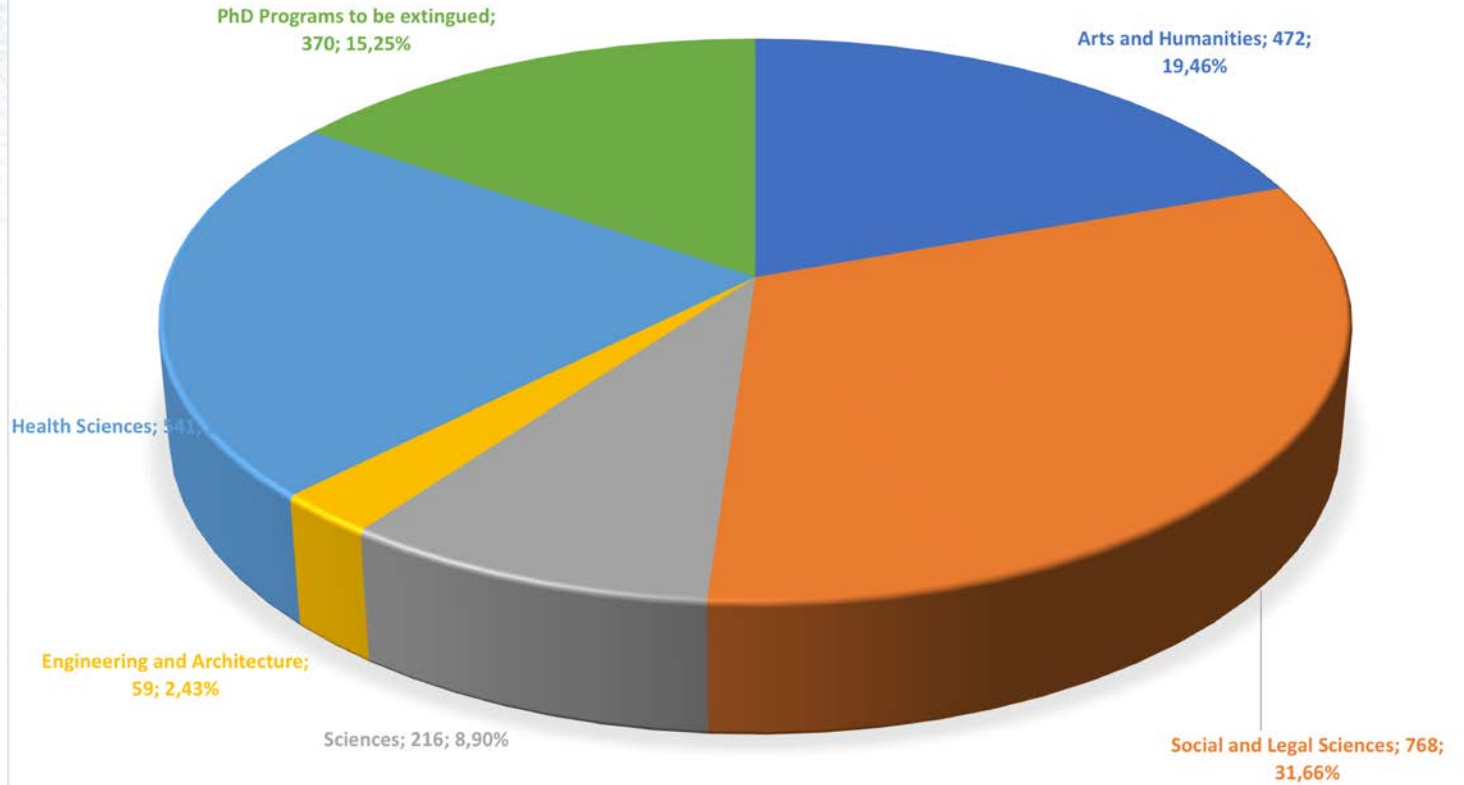
MASTER STUDENTS ORGANIZED BY GENDER AND KNOWLEDGE FIELD





Master and Doctoral Programs

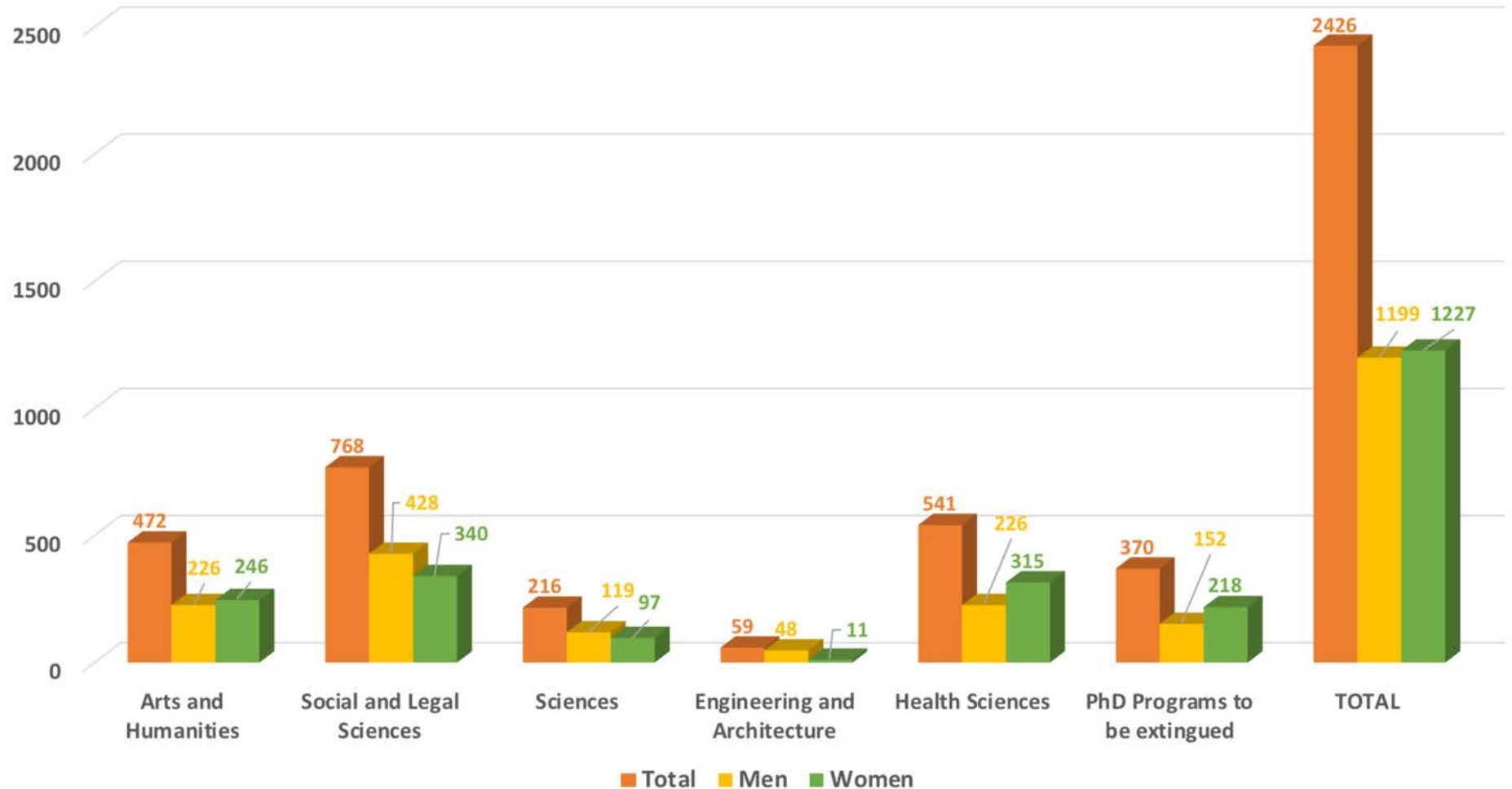
PHD STUDENTS





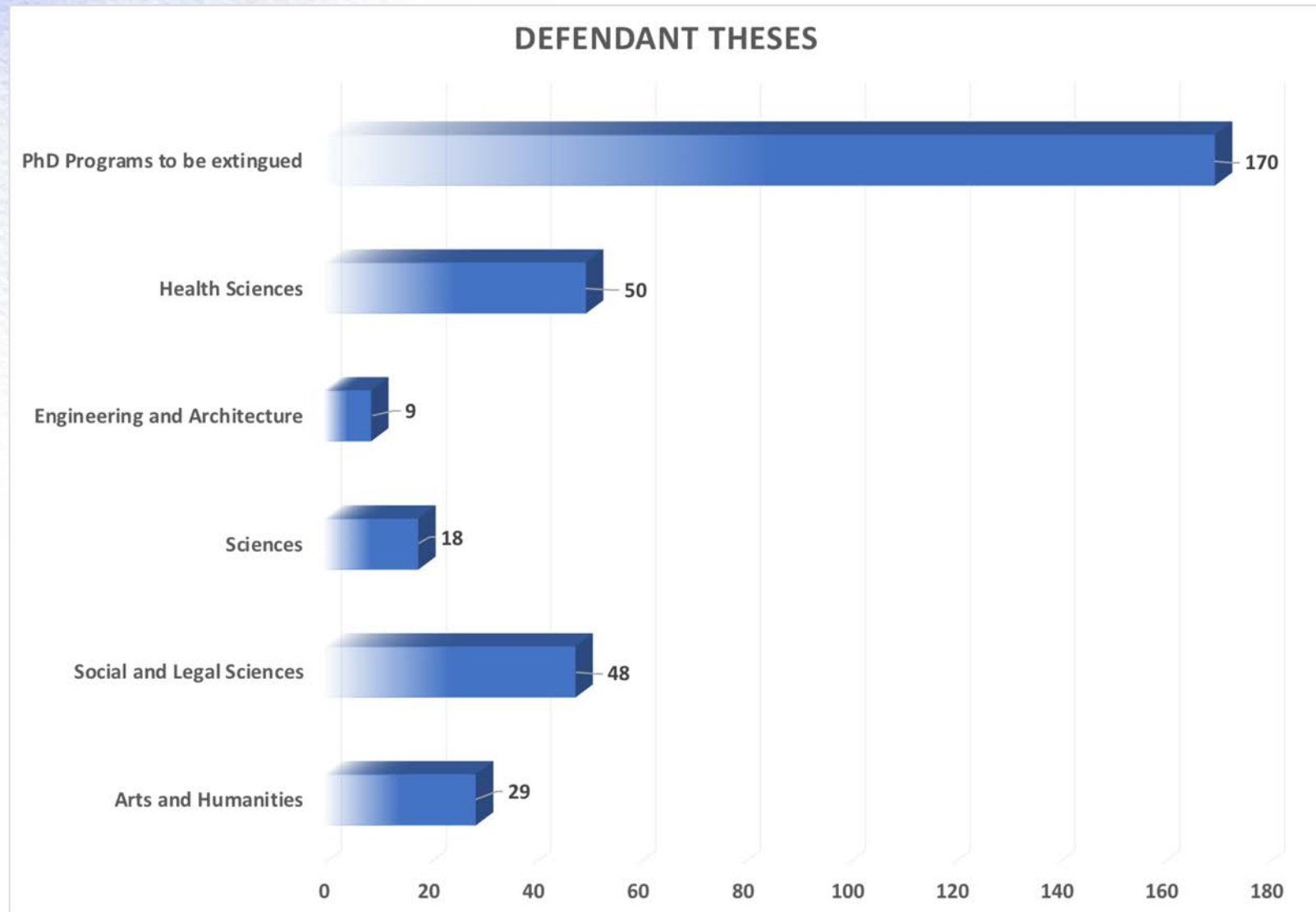
Master and Doctoral Programs

PHD STUDENTS ORGANIZED BY GENDER AND KNOWLEDGE FIELD





Master and Doctoral Programs





It is the first University considered as International Campus of Excellence regarding the Spanish Language

3 International cultural centers

13 Research Institutes (4 non-STEM; 8 STEM; 1 Interdisciplinary)





International Teaching

- 1,100 Erasmus students (number 12 in Europe)
- 14% of our doctorate students are of European origin, and 35% are from other regions worldwide, especially Latin-America
- 7,000 foreign students enrolled in our International Courses





Scientific Park

- 62 enterprises (most of them with a technological background)
- 823 employees
- 5M € per year in competitive funds





Scientific Park

The ***Spanish Center for Pulsed Lasers*** was established in December 2007 as a Consortium composed of the Ministry of Economy, Industry and Competitiveness (former Ministry of Science and Education), the Regional Government of Castilla y León, and the University of Salamanca

The main founding objectives of the Consortium are

- To design, build and operate a Petawatt laser in Salamanca
- To develop ultrashort pulses technology in Spain
- To make important advances in compact and intense laser technology
- To promote the use of this technology at several fields: Physics, Engineering, Biology, Medicine, etc.
- To open the facility to the national and international scientific community



<https://www.clpu.es/en>



Ministry funded research projects (Call 2017)

- 55 research projects funded (4,098,754 €)





Some STEM research lines and projects in the University of Salamanca

PHARMACOLOGICAL THERAPY

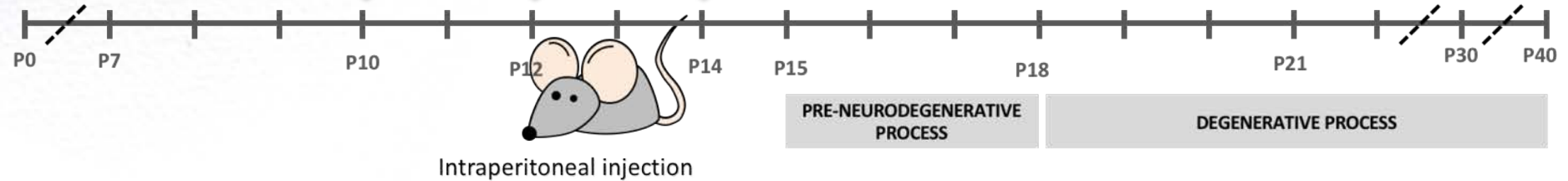
Types of *N-Oleoylethanolamine* administration
in PCD mice (model of neurodegeneration)

Acute
administration at
P10

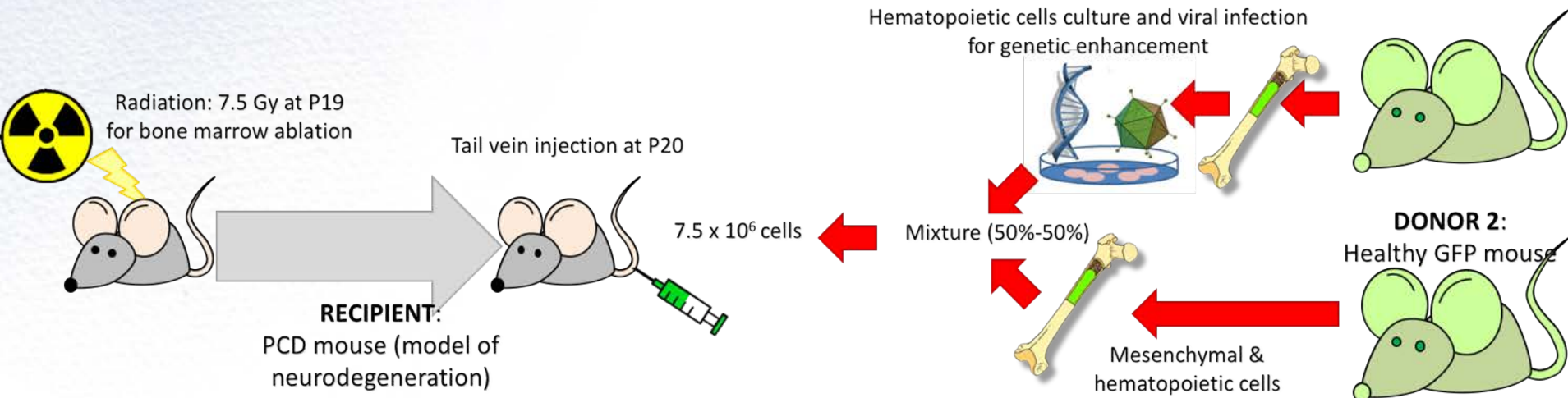
Acute
administration at
P12

Acute
administration at
P14

Histological
analysis



CELL THERAPY





Virtual Alliances for Learning Society (VALS Project)



- European project for **building knowledge alliances** between Universities and Companies across Europe with the **aim of facing real business problems through an open innovation** approach based on using and developing open software solutions
- Supported by
 - *European Union. Lifelong Learning Programme (Sub-Programme Erasmus-Knowledge Alliances)*
- Duration: November 2013 – February 2016



Virtual Alliances for Learning Society (VALS Project)



- Knowledge alliances among the entities (both from Academic and Business)
- The most interesting VALS innovation is about the definition of a system of virtual placements for students in companies
 - Entrepreneurship skills promotion
 - Definition of new teaching / learning methods
- Development of the *Semester of Code*
 - Semester in which one the students have their placements in companies and foundations related to open software
 - Virtual placements (telework)
 - Involved academic tutors (from the universities) and mentors (from the businesses)



Virtual Alliances for Learning Society (VALS Project)



The Apache Software
Foundation



More information: <http://virtualalliances.eu/>

(García-Peñalvo et al., 2014a, 2014b, 2015, 2016a, 2016b)



TACCLE 3 - Coding



- European project that aims to support Primary School and other teachers who want to teach Computing to 4 - 14 year olds. It equips classroom teachers with the knowledge and the materials they need by developing a website of ideas and resources together with in-service training courses and other staff development events
- Funded by the European Union Erasmus + KA2 Programme (Ref. 2015-1-BE02-KA201-012307)
- Duration: September 2015 – October 2017



TACCLE 3 - Coding



1. To equip fellow classroom teachers, whatever their level of confidence, with the knowledge and the materials they need to teach coding effectively
2. To develop a website of easy-to-follow and innovative ideas and resources to aid teachers in teaching coding. It will also include a review of the current academic research and an overview of the resources currently available for teaching coding
3. To provide national and international in-service training courses and other staff development events to help support and develop confidence and competences in teaching coding

TACCLE 3 - Coding

portal
TACCLE 3 Coding

HOME IDEAS AND RESOURCES KEEP IN TOUCH



Taccle 3 Coding is a project funded under Erasmus+ that supports Primary School and other teachers who want to teach Computing to 4 - 14 year olds. Taccle 3 will equip classroom teachers with the knowledge and the materials they need by developing a website of ideas and resources together with Inservice training courses and other staff development events

Many European countries are introducing Computing as a core curriculum subject. Some have already done so; others are intending to. Inevitably the detail of the curricula will be different in each country but there is a substantial overlap - most all of the curricula available so far include coding/programming, control technology and computational thinking so we have started with these.

Click on **Ideas and Resources** or choose from the dropdown above to find curriculum linked resources for teachers in your language.

THE TACCLE BRAND

- Taccle1
- Taccle2
- eLearning for Primary Teachers
- eLearning for STEM Teachers
- eLearning for Creative and Performing Arts
- eLearning for Teachers of Key Competences
- eLearning for Humanities Teachers
- Training Courses

NEWS

- Learning Futures
3 months ago with no comments
- High Quality Resources
3 months ago with no comments
- Salamanca Meeting
3 months ago with no comments
- First steps in Taccle3
10 months ago with no comments

CODING IN ACTION

- Ynysowen Community Primary
School use Sketch up to design their own e-portfolios
5 months ago with 1 comment
- Ysgol Bryn Eilan pupils coding music with Sonic Pi
8 months ago with 1 comment
- Bryn Deri Primary School use Scratch to learn maths.
9 months ago with no comments
- MaKeyMaKey Workshops at Tonypandy Primary
10 months ago with 1 comment

#TACCLE3

- 4 days ago
RT @angelaarees: Such a good #edublog /t.co/SB6zEWMQ0w lots of great #coding #computing ideas and resources #taccle3
- 4 days ago
RT @babl_tech: So much useful research here on children interacting with computers from @ChnCIGroup /t.co/KkeSBNOggc :) #Taccle3 #Ba...
- 18 days ago
Join the @Taccle3 mailing list and share the ways you teach #coding in your classroom /t.co/Qa1Vejou0m

META

- Log in
- Entries RSS
- Comments RSS
- WordPress.org

SCROLL DOWN FOR THE MOST RECENT RESOURCES FROM AROUND EUROPE

More information:

<http://www.taccle3.eu/>

(García-Peñalvo, 2016a;
García-Peñalvo et al., 2016c)



WYRED



- WYRED: netWorked Youth Research for Empowerment in the Digital society
- Project coordinator: Dr. Francisco José García-Peñalvo
- Call: European Union. Horizon 2020 Programme. Call H2020-SC6-REV-INEQUAL-2016-2017/H2020-SC6-REVINEQUAL-2016
- Reference: 727066
- Duration: 1/11/2016 – 31/10/2019





WYRED



Objectives

- to provide a framework in which children and young people can articulate and explore their perspectives and interests in relation to digital society
- to provide a platform from which children and young people can communicate their perspectives to other stakeholders effectively through innovative engagement processes.
- to engage children and young people in a generative research cycle involving networking, dialogue, participatory research and interpretation
- to generate a diverse range of outputs, critical perspectives and other insights that can inform policy and decision-making in relation to children and young people's needs in relation to digital society
- to make this process continuous and sustainable



WYRED



Wyred is about **empowering young people**, by trusting them and listening to them.

What we do is bring them together, they **talk** to find out what issues matter most.

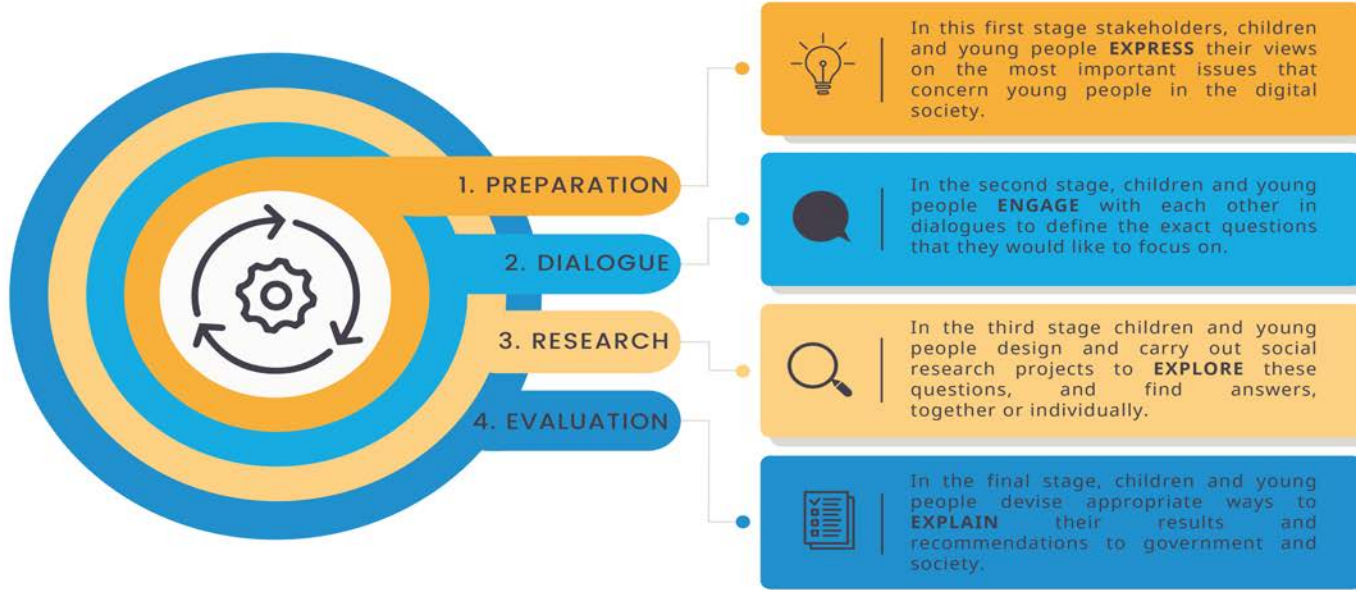
Then they **explore** the issues more deeply in projects, looking for solutions, and better understanding. Finally they **share** what they have discovered, with society, with those who make decisions.

We guide them, they grow and realise their **voice** can be heard, and play a more active role in society.

And society, and policy, find out **what really matters** to young people



Stakeholders, Children & Young People





WYRED



Es seguro | <https://platform.wyredproject.eu/projects>

Para acceder rápido a una página, arrástrala a esta barra de marcadores. [Importar marcadores ahora...](#)

HOME COMMUNITIES PROJECTS EVENTS - HELP USER ACCOUNT -

WYRED
The platform for the young

HOME PROJECTS PUBLIC PROJECTS

Public projects

Please fill in the **Inclusion Questionnaire** before you go on.

Public projects: 89
Private projects are only available inside the private communities in which they are developed.

Tags

Language: - Any - | Sort by: Post date | Order: Desc | [Apply](#) | [Reset](#)

Our environmental future

Wouldn't it be great when our world looked like the symbolic picture for the environment project? In fact, we are far away from there.
[\(Read more\)](#)

Animal Protection

In a short text Romca - a dog - explains that it is a living being, having the right to be treated properly by humans.
[\(Read more\)](#)

Waste of Food - Appeal to the EU

This project aims at reduction food waste in formulating an appeal to the EU. It is suggested
[\(Read more\)](#)

Radio interview on stress

Young people are taking over the roles of experts in the topic of stress and are asked in a radio interview (mp3) how stress can be dealt with in everyday life.
[\(Read more\)](#)

School as it is.

[At its birthplace](#)

Digital Implants

This is a poem about the dangers of

Tourism in China

Did you know that in 2016 China

What's wrong with the education system

More information:
<https://wyredproject.eu>

(García-Peñalvo, 2016c, 2017b; García-Peñalvo & Kearney, 2016; García-Peñalvo & Durán, 2017)



PROgressive Visual DEcision Making for Digital Humanities



PROVIDEDH

PROgressive Visual DEcision Making for Digital Humanities

- Project coordinator: Dr. Roberto Therón Sánchez
- Call: MINECO. Acciones de Programación Conjunta Internacional, del Programa Estatal de I+D+I Orientada a los Retos de la Sociedad, en el marco del Plan Estatal de Investigación Científica y Técnica y de Innovación 2013-2016
- Reference: PCIN-2017-064
- Duration: 31/12/2017 – 31/12/2020



PROgressive Visual DEcision Making for Digital Humanities



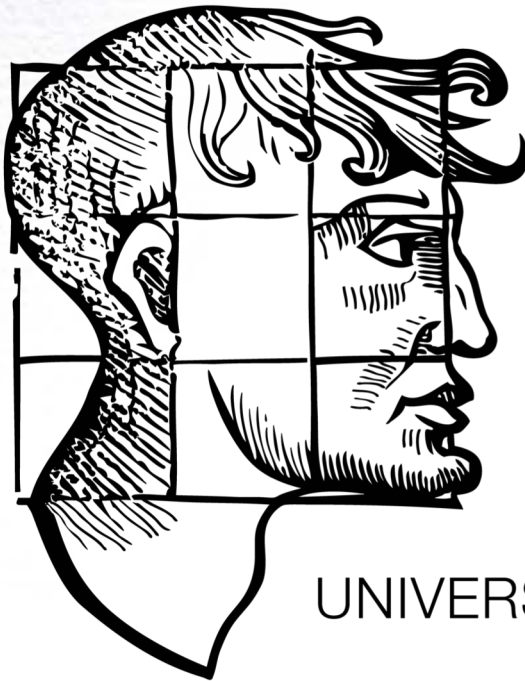
- In the recent years, with the pervasiveness of computers and a great variety of electronic devices connected to the Internet, Digital Humanities (DH) as a research field has experienced a great transformation that has permitted the completion of very ambitious projects with large impact in the society beyond the academia
- This project aims to provide visual interactive tools that convey the degree of uncertainty of the datasets and computational models used behind, designed to progressively adapt the visualizations to incorporate the new, more complete or more accurate data
- The project would not take only into account scholars, since it is most relevant in DH the fact that the role of citizens has changed enormously
- We live in a society that has democratized science, and the number of projects in which the contribution of citizens, either producing or using digital resources, has exploded
- The experience gained in other areas of science in which the intervention of computing has been much deeper and constant will be analysed and adapted to the case of humanities. Specially, regarding infrastructures, frameworks, models and tools that can be standardized for the different disciplines in the humanities



University of Salamanca promotes STEM



Scientific Culture & Innovation Unit



unidad
de **cultura**
científica
e innovación

UNIVERSIDAD DE SALAMANCA

<http://culturacientifica.usal.es>



Scientific Culture & Innovation Unit

Objective

Managing and coordinating the dissemination and scientific culture initiatives that arise in any area of the University, covering all branches of knowledge and offering service to all agents that generate knowledge and innovation (centres, departments, institutes, research groups, researchers, etc.)





Scientific Culture & Innovation Unit

Actions



- Showing the scientific and technological potential of the University of Salamanca in its VIII Centenary
- Promoting the scientific vocations in all educational stages, with special attention to girls and young women and university students in the STEM studies
- Extending the scientific and technological cultural activity produced at the University of Salamanca outside the local area by collaborating with rural, regional and national agents through shared projects such as exhibition itineraries and dynamization of specific activities in these environments



Scientific Culture & Innovation Unit

Activities



- International Day of Women and Girls in Science





Scientific Culture & Innovation Unit

Activities



- International Day of Women and Girls in Science
 - Different events and activities <http://saladeprensa.usal.es/node/111832>
 - Research Speed Dating with research women
 - Breakfast of research women of the University of Salamanca
 - Exhibition "Female milestones in the biomedical sciences"
 - Exhibition "Woman had to be!"
 - Scientists in the classrooms
 - Etc.



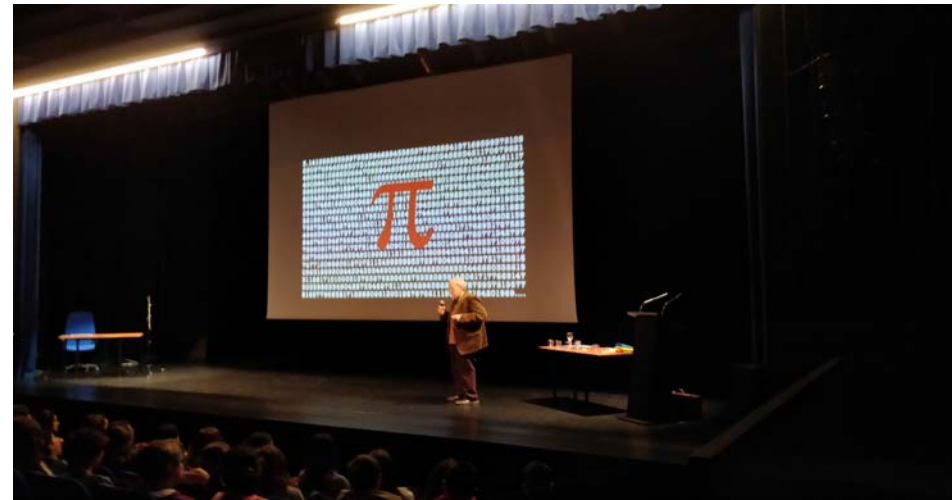


Scientific Culture & Innovation Unit

Activities



- International Day of the number Pi





Scientific Culture & Innovation Unit

Activities

- International Day of Light





Scientific Culture & Innovation Unit

Activities



- Scientific Spring Festival

3/05/2018 — 27/05/2018

Primavera Científica

UNIDAD DE CULTURA CIENTÍFICA + INNOVACIÓN
UNIVERSIDAD DE SALAMANCA

Logos at the bottom of the poster include:

- Spain's coat of arms
- Government of Castile and León
- Ministry of Economy, Industry and Competitiveness
- FECYT (Fundación Española para la Ciencia y la Tecnología)
- Red of Spanish Scientific and Technological Centers
- Universidad de Salamanca
- 800 años 1218-2018
- Centro de Cultura Científica e Innovación
- Departamento de Salamanca
- Salamanca

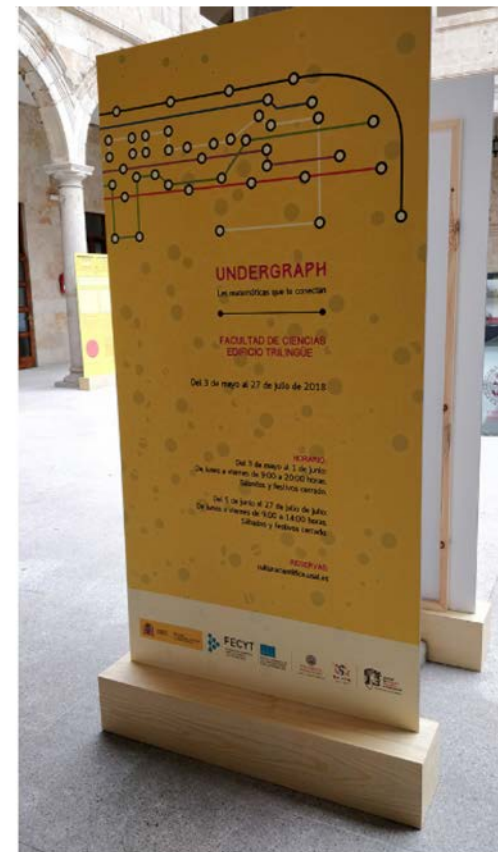


Scientific Culture & Innovation Unit

Activities



- Scientific Spring Festival (four editions)
 - Pechakucha Night Salamanca vol.16 about STEM
 - Stat Wars: The Data Awakens
 - Celebration of the International Day of Light
 - Mineral fair (five editions)
 - Exhibition “Undergraph”





Scientific Culture & Innovation Unit

Activities

- Scientific Summer Camp for children (two editions)

<https://goo.gl/c9EnsL>





Medialab USAL

- More related to STEAM than STEM
- It means an open space for art, technology and society
- An approach to open science throughout the social innovation



MEDIALAB USAL

<http://medialab.usal.es/>



Medialab USAL



Activities

- Pechakucha Night Salamanca
 - PechaKucha 20x20 is a simple presentation format where you show 20 images, each for 20 seconds. The images advance automatically and you talk along to the images
 - MEDIALAB USAL organizes pechakucha events to present projects, ideas and innovative experiences of the University researchers
 - Several Pechakucha events on science have been organized. The last PechaKucha Night was last May 24. The event was focused on STEM
 - Seven speakers participated (physicists, statisticians, mathematicians, environmentalists, engineers, etc.)



Medialab USAL



Activities

- Pechakucha Night Salamanca





Medialab USAL



Activities

- 3D Printing Workshops
 - One of the objectives of MEDIALAB USAL is to promote the use of technology in the University and in society
 - MEDIALAB USAL organizes workshops and activities on various technologies, such as 3d printing, arduino, etc.
 - In the 3D printing workshops MEDIALAB USAL teaches how to use these printers in academic and professional projects
 - It is very related to computational thinking. In this regard, GRIAL research group is participating with the National Association for Computers in Education (ADIE) and the National Scientific Informatics Association (SCIE) to define an Informatics curriculum for pre-university students in Spain (García-Peñalvo & Cruz-Benito, 2016, 2017; Llorens-Largo et al., 2017; García-Peñalvo & Mendes, 2018)



Medialab USAL



Activities

- 3D Printing Workshops





Medialab USAL



Activities

- Augmented reality sandbox: a platform for educative experiences
 - A collaborative and interdisciplinary project developed in MEDIALAB USAL
 - The goal is to make teaching mathematics and natural sciences easier for elementary school children
 - This project uses the Augmented Reality to implement a resource for the teaching of mathematics and natural sciences. This installation uses an infrared camera to read the three-dimensional surface of the sand and then draw on it contours and bodies of water that are transformed when the user interacts with the sand

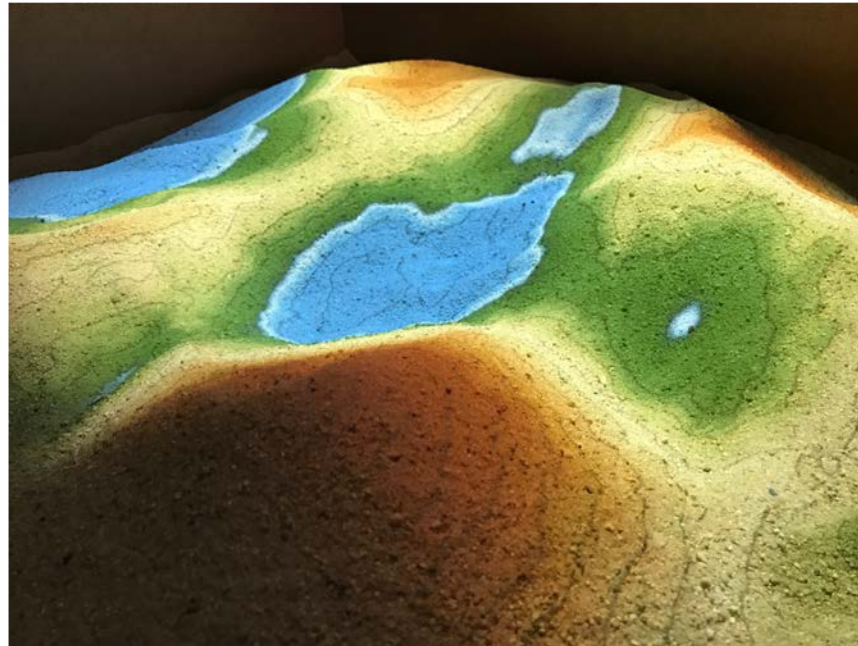


Medialab USAL



Activities

- Augmented reality sandbox: a platform for educative experiences



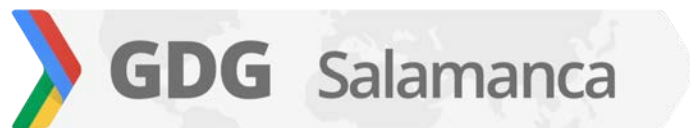


Women in STEM

- Prof. Dr. Dolores Pereira Vice-president of the Association of Women in Research and Technology <http://www.amit-es.org>



- Collaboration with WomenTechmakers, a community which organizes Women Techmakers events and works to increase an environment of inclusivity in STEM areas <https://gdgsalamanca.com> <http://wtm.gdg.es>



Women Techmakers



Women in STEM

- Exhibition “Maria Sklodowska-Curie. A polish in Paris”
<http://saladeprensa.usal.es/node/111603>



Women in STEM

- Teaching innovation projects such as a pilot experience to include the gender perspective in STEM careers (García-Holgado et al., 2017, 2018)

Fran García Peñalvo @frangp · 28 feb. 2017/02/27/ibm...
"IBM International Women Day", a boost to the women
#is1usa17

Alicia García @mambanegra86 · 8 mar. 2017/03/08/hel... #is1usa17
Helping women progress in traditionally male dominated fields
blog.frontiersin.org/2017/03/08/hel... #is1usa17

TimesHigherEducation @timeshighereducation · 16:18 - 20 mar. 2017
Gender in the Global Research La mix of researchers in 1996 to 2000
timeshighereducation.com/news/w

Alicia García @mambanegra86 · 3 mar. 2017/03/03/... #is1usa17
The exact age when girls lose interest in science and math - CNNMoney
cnnmon.ie/29rvu7 #is1usa17

Alicia García @mambanegra86 · 11 mar. 2017/03/11/... #is1usa17
From Argentina: How do you imagin...
/yUznq2SHKMs #is1usa17 @Plan...

111 Mil: Chi...
youtube.com

Mujer & Ciencia
VOL. 14
18/05/2017
20-2018

The exact age when girls lose interest in science and math
A new European survey commissioned by Microsoft found that young girls become interested in these subjects around the age of 11 and then quickly



STEM recognition

[Inicio](#) [Comités](#) [Programa](#) [Actas](#) [Contacto](#)



PIIECYL 2018

Quinta edición Premios de Investigación e Innovación en ESO,
Bachillerato y Formación Profesional



¿Qué son estos premios?

La mejora de la educación viene siendo la premisa esencial en la que se fundamentan las iniciativas puestas en marcha por la administración educativa de Castilla y León. Así la Consejería de Educación viene desarrollando, dentro del Plan Excellentia diversas

[Leer más](#)



¿A quién va dirigido?

Destinatarios: alumnado que esté cursando ESO, bachillerato o formación profesional en centros educativos de la Comunidad de Castilla y León.
Los alumnos podrán participar de forma individual o colectiva, en este último caso, con hasta un máximo de tres personas

[Leer más](#)



¿Dónde y cuándo tendrá lugar?

Los Premios de Investigación e Innovación en ESO, Bachillerato y Formación Profesional organizados por la Junta de Castilla y León y apoyados por el Instituto Universitario de Ciencias de la Educación (IUCE) y el Grupo de Investigación en InterAcción y

[Leer más](#)

<https://piiecytl.usal.es/>



Connecting with pre-university students

- Science Research/Excellence High School Diploma
 - Vaguada de la Palma High School in collaboration with the University of Salamanca
 - With the aim of favouring a rigorous, orderly and critical scientific mentality and providing a closer relationship between teachers and students in order to carry out a joint research
 - Project-based learning methodology
 - From 2013-2014 (five editions)
 - 66 projects developed in these years

<http://www.iesvaguada.com/oferta/bie.html>



STEM divulgation

- Experience University – Post-graduate Science itinerary
 - Starting in 2017-2018 academic course
 - The most demanded itinerary of the programme
 - 75 enrolled students
 - Age average 62, the youngest 55 years old and the oldest 75 years old
 - A very heterogeneous group (people with basic studies, housewives, firemen, doctors, primary school teachers, nurses, etc.)
 - Syllabus (40 hours organized in 1.5-hour sessions)
 - Maths
 - Chemistry and Chemistry Engineering
 - Physics
 - Biology
 - Computer Science





STEM divulgation

- Events about technology in collaboration with the GDG Salamanca, the Faculty of Sciences or the students delegations
 - Android Day <http://android2015.gdgsalamanca.com>
 - Design&Tech (three editions) <http://design.gdgsalamanca.com>
 - GeekUSAL <https://sites.google.com/usal.es/geekusal>
- Collaboration with "Pint of Sciences" Festival since 2016. Last edition: 3 days in 6 pubs, 34 talks, 1,000 attendees
<https://pintofscience.es/events/salamanca>





STEM divulgation



- Collaboration in workshops with children in rural areas “Con Ciencia de Pueblo” (2017)
- Sciences week in INCYL with exhibitions, workshops and other activities (2016)
- Educational Workshops about “Discover your DNA” or “Reveal your fingerprint as in CSI”
- Brain Awareness Week organized by INCYL since 2012 (seven editions)
 - <http://tv.usal.es/videos/3013/la-semana-del-cerebro-en-el-incyl>
 - <http://saladeprensa.usal.es/node/112276>





STEM and beyond



An interdisciplinary approach

- An example of this is the Research Institute for Educational Sciences (IUCE - <https://iuce.usal.es/>)
- Integrating research groups from
 - Education
 - Communication
 - Computer Science
 - Medicine



INSTITUTO UNIVERSITARIO
DE CIENCIAS DE LA EDUCACIÓN
iuce.usal.es



An interdisciplinary approach

- An example of this is the Research Institute for Educational Sciences (IUCE - <https://iuce.usal.es/>)
- Integrating research groups from
 - Education
 - Communication
 - Computer Science
 - Medicine
- It promotes an interdisciplinary PhD Programme so called Education in the Knowledge Society (<https://knowledgesociety.usal.es/>)



INSTITUTO UNIVERSITARIO
DE CIENCIAS DE LA EDUCACIÓN

iuce.usal.es



An interdisciplinary approach



Convocatoria de Becas de movilidad para realizar estudios de Doctorado en la Universidad de Salamanca destinadas a estudiantes latinoamericanos

Enviado por PhD el 28 Mayo 2018 - 21:18
Se ha publicado la convocatoria de Becas Internacionales de movilidad destinadas a estudiantes latinoamericanos que quieren realizar estudios de Doctorado en la Universidad de Salamanca durante el curso 2018/2019. Convocatoria de Becas Internacionales de Doctorado 2018-2019. Toda la información se encuentra disponible en <http://rel-int.usal.es/es/module-variations/estudiantes-extranjeros/becas-internacionales-de-la-usal>

Leer más

MOOC "Tendencias en investigación educativa y social"

Enviado por Ana García-Valcárcel el 15 Mayo 2018 - 19:49
El próximo 29 de mayo comienza el MOOC "Tendencias en investigación educativa y social", creado por la Red Universitaria de Investigación e Innovación Educativa (REUNID) en colaboración con la Universidad de La Laguna. En el curso participa el Grupo GITE-USAL.

Leer más

Convocatoria de ayudas de intercambio de profesores-investigadores posdoctorales entre FAPESP y USAL (2018)

Enviado por PhD el 11 Mayo 2018 - 19:05
FAPESP y la Universidad de Salamanca hacen publica esta convocatoria para el intercambio de profesores e investigadores posdoctorales, bajo los términos y condiciones de SPRINT 2nd Edition 2018 (<https://transferencia.usal.es/convocatoria-fapesp-2018>)

Plazo de solicitudes hasta el 30 de julio de 2018 en el Registro de la USAL con copia a serv.agi@usal.es.

Leer más

Ayudas para financiar 34 contratos predoctorales de la Universidad de Salamanca. Cofinanciadas por el Banco



Streaming

Sesión de dudas 28 de mayo a las 9:15 (hora española)

PhDEducationKS

Enlaces de interés

Plantillas y logotipo del Programa

- Recursos gráficos

Normativa del Programa

- Reglamento tesis doctoral por compendio de artículos
- Manual de Calidad del Programa

Escuela de doctorado

- Aplicación RAPI de la USAL
- Tu cuenta de correo institucional
- Información y trámites administrativos
- Impresos y formularios

Recursos

- Acceso a Web Of Sciences (WOS)
- Acceso a Scopus
- Indices de impacto
- Curriculum Vitae Normalizado (CVN)

Becas y ayudas

- Convocatorias de la USAL
- Ayudas FPU
- Becas y ayudas de la Junta de Castilla y León
- Becas Fundación Carolina
- Becas del Ministerio para movilidad y estancias
- Programas propios de la USAL

Salidas laborales

- Acreditación como profesor contratado
- Acreditación como profesor funcionario

More information:

<https://knowledgesociety.usal.es/>

(García-Peñalvo, 2013a, 2015, 2017a)



An interdisciplinary approach

Es seguro <https://2018.teemconference.eu>

Para acceder rápido a una página, añádela a este barra de marcadores. [Verificar marcadores añadidos.](#) Otros marcadores

HOME COMMITTEES TRACKS FOR AUTHORS VENUE PREVIOUS EDITIONS

TEEM'18

TECHNOLOGICAL EDUCATION FOR ENHANCING MULTIDISCIPLINARITY

800th ANNIVERSARY OF THE UNIVERSITY OF SALAMANCA

24-26 October 2018
Salamanca, Spain

Proceedings

All accepted papers will be published in the ACM Digital Library as a volume in its International Conference Proceedings Series with ISBN and indexed in SCOPUS.

Sixth edition

Sixth edition following the successful results obtained in the previous editions of TEEM, namely in 2013, in 2014, in 2015, in 2016 and in 2017 in both scientific outcomes, human relationships and cooperation opportunities.

Innovation

It is divided in thematic and highly cohesive tracks. Each track shares the scientific and formal aspects for paper submissions, peer reviews and publication, but the track chairs will organize the proper dynamics to create a researching community.

Conference Chair

Francisco J. García-Peñalvo
HEAD OF GRIAL RESEARCH GROUP

[Twitter](#) [LinkedIn](#) [Email](#)

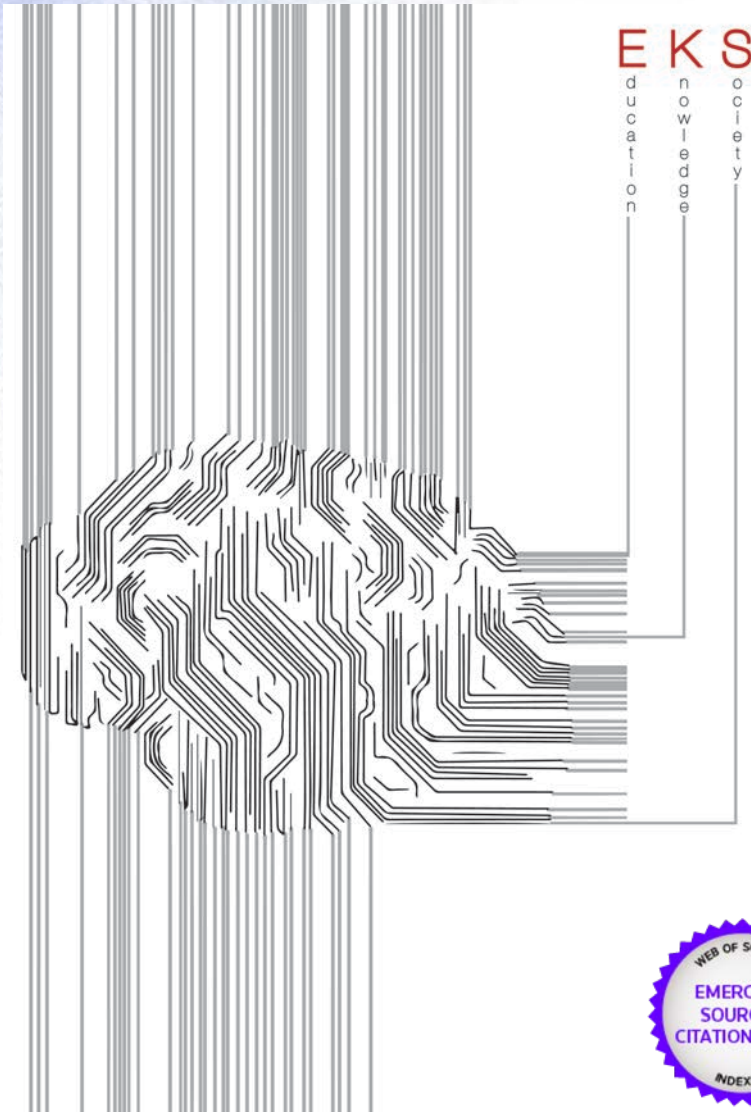
Organization

Past edition proceedings
(García-Peñalvo, 2013b, 2014, 2016b;
Alves, & Felgueiras, 2015; Doderó et al.,
2017)

<https://2018.teemconference.eu/>



An interdisciplinary approach



<http://revistas.usal.es/index.php/revistatesi/index>



A collaboration proposal

**Eramus+ Capacity Building
in the Field of Higher Education**

**By Prof. Dr. MARIA CARMEN IGLESIAS
OSMA (MD, PhD)
Professor of Pharmacology
Specialist in Internal Medicine
Faculty of Medicine
University of Salamanca**



Aims

2018 - EACEA

(Education, Audiovisual and Culture Executive Agency)

Capacity-building projects in the field of higher education support the modernization, accessibility and internationalization of higher education in Partner Countries



Erasmus+

THE EU PROGRAMME FOR EDUCATION,
TRAINING, YOUTH AND SPORT.



Highlight

2018 - EACEA

(Education, Audiovisual and Culture Executive Agency)

Joint projects: aimed at organizations to help improve curriculums, governance, and the strengthening of relations between higher education systems

Length: 2 or 3 years

Minimum grant award: 500,000€

Maximum grant award: 1,000,000€



Background

(Coimbra Group - Life Sciences WG)

A training bridging pre-master program for postgraduate Bioscience students with educational knowledge without qualifications for high-level master Bioscience programs will be established with a total duration of up to one year, containing initial basic experimental training followed by individually supervised research project training



Background

(Coimbra Group - Life Sciences WG)

- In order to harmonize the entry level to the master program platform, a practical research training may help
- This may be offered in the participant universities as a bridging pre-master program and will include both general laboratory training as well as an experimental project comprising a minimum of 10 ECTS equivalents
- This bridging course may be very helpful also to high potential master candidates who have not experienced laboratory based research training arising from universities in the partner countries



Universities of the Life Sciences WG interested to participate and contribute as Program countries

**A total of 8 Higher Education Institutions (HEIs)
from 5 countries**

- University of Barcelona
- University of Göttingen
- University of Granada
- University of Iași
- University of Montpellier
- University of Padua
- University of Salamanca (*)
- University of Würzburg



Eligible countries to be considered as Partner countries

South-Mediterranean countries (Region 3) would stay the primary partnering universities the students would be acquired from

Algeria

Egypt

Israel

Jordan

Lebanon

Libya

Morocco

Palestine

Syria

Tunisia



News in the 2018 Call for proposals

2018 - EACEA

(Education, Audiovisual and Culture Executive Agency)

- No Special Mobility Strand Subject
- Simplification of thematic priority areas: now 3 priority areas instead of 4, according to the types of projects
- Minimum number of Program Countries in an eligible CBHE consortium reduced from 3 to 2 countries → **we are 8 from 5 countries**
- Projects must have at least as many HEI from partner countries as HEI from countries in the program
- The grant rate for the highest travel aid has been increased to €1,500
- Exceptional travel costs have been introduced
- 2 options for the start of the eligibility period in the future CBHE projects
 - 15 November 2018
 - 15 January 2019





Roadmap for 2018 CBHE Call

2018 - EACEA

(Education, Audiovisual and Culture Executive Agency)

Steps	Date
Publication Erasmus+ CBHE Call for Proposals	October 2017
Deadline for submission of applications	February 2018
Verification of eligibility of project proposals	February - March 2018
Assessment of projects by experts (remotely)	March - May 2018
Consultation procedure	June 2018
Evaluation Committee for selection of projects	July 2018
Sending for signature of Award decision by Agency AO	July 2018
Notification of applicants & publication of results	July 2018
Preparation and signature of grant agreements	August-September 2018
Start of eligibility period	15 November 2018 or 15 January 2019





Are you interested in a collaboration?

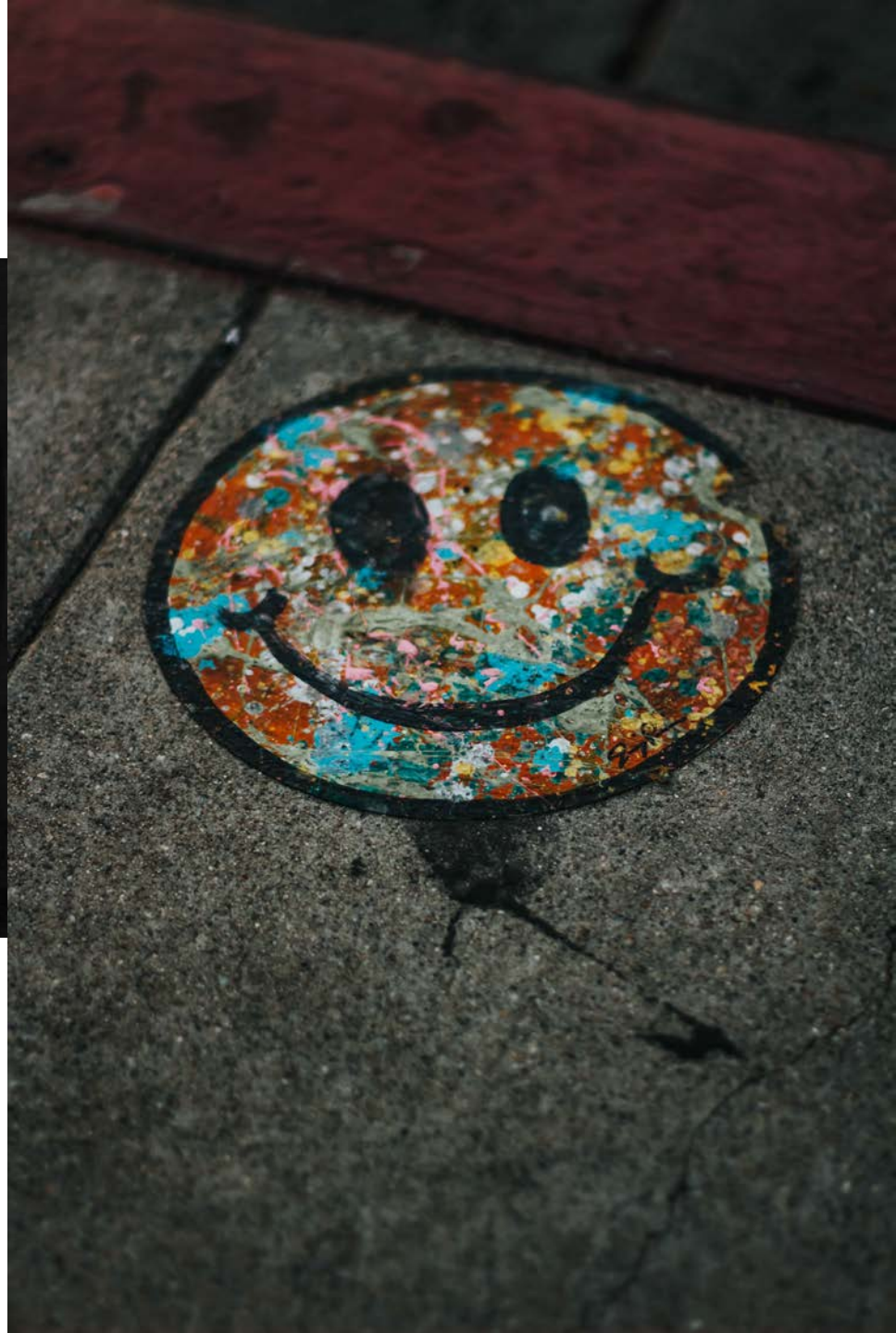
Contact us

fgarcia@usal.es

mcio@usal.es



<https://goo.gl/WwP6fu>



<https://goo.gl/c5hJGR>
Photo by [Devin Avery](#) on [Unsplash](#)



REFERENCES



References

- Alves, G. R., & Felgueiras, M. C. (Eds.). (2015). *Proceedings of the Third International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'15) (Porto, Portugal, October 7-9, 2015)*. New York, USA: ACM.
- Doderó, J. M., Ibarra Sáiz, M. S., & Ruiz Rube, I. (Eds.). (2017). *Proceedings of the Fifth International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'17) (Cádiz, Spain, October 18-20, 2017)*. New York, NY, USA: ACM.
- García-Holgado, A., García-Peñalvo, F. J., Mena Marcos, J. J., & González, C. (2017). Introducción de la Perspectiva de Género en la docencia de Ingeniería del Software. In M. L. Sein-Echaluce Lacleta, Á. Fidalgo-Blanco, & F. J. García-Peñalvo (Eds.), *La innovación docente como misión del profesorado. Actas del IV Congreso Internacional sobre Aprendizaje, Innovación y Competitividad. CINAIC 2017 (4-6 de Octubre de 2017, Zaragoza, España)* (pp. 627-631). Zaragoza, España: Servicio de Publicaciones Universidad de Zaragoza.
- García-Holgado, A., Mena, J., García-Peñalvo, F. J., & González, C. S. (2018). Inclusion of gender perspective in Computer Engineering careers: Elaboration of a questionnaire to assess the gender gap in Tertiary Education 2018 *IEEE Global Engineering Education Conference (EDUCON), (17-20 April 2018, Santa Cruz de Tenerife, Canary Islands, Spain)* (pp. 1553-1560). USA: IEEE
- García-Peñalvo, F. J. (2013a). Education in knowledge society: A new PhD programme approach. In F. J. García-Peñalvo (Ed.), *Proceedings of the First International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'13) (Salamanca, Spain, November 14-15, 2013)* (pp. 575-577). New York, NY, USA: ACM.
- García-Peñalvo, F. J. (Ed.) (2013b). *Proceedings of the First International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'13) (Salamanca, Spain, November 14-15, 2013)*. New York, USA: ACM.
- García-Peñalvo, F. J. (Ed.) (2014). *Proceedings of the Second International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'14) (Salamanca, Spain, October 1-3, 2014)*. New York, USA: ACM.



References

- García-Peñalvo, F. J. (2015). Engineering contributions to a Knowledge Society multicultural perspective. *IEEE Revista Iberoamericana de Tecnologías del Aprendizaje (IEEE RITA)*, 10(1), 17-18. doi:10.1109/RITA.2015.2391371
- García-Peñalvo, F. J. (2016a). A brief introduction to TACCLE 3 – Coding European Project. In F. J. García-Peñalvo & J. A. Mendes (Eds.), *2016 International Symposium on Computers in Education (SIIE 16)*. USA: IEEE. doi:10.1109/SIIE.2016.7751876
- García-Peñalvo, F. J. (Ed.) (2016b). *Proceedings of the Fourth International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'16) (Salamanca, Spain, November 2-4, 2016)*. New York, USA: ACM.
- García-Peñalvo, F. J. (2016c). The WYRED project: A technological platform for a generative research and dialogue about youth perspectives and interests in digital society. *Journal of Information Technology Research*, 9(4), vi-x.
- García-Peñalvo, F. J. (2017a). *Education in the Knowledge Society PhD Programme. 2017 Kick-off Meeting*. Paper presented at the Seminarios del Programa de Doctorado en Formación en la Sociedad del Conocimiento (16 de noviembre de 2017), Salamanca, España. <https://goo.gl/bJ5qKd>
- García-Peñalvo, F. J. (2017b). WYRED Project. *Education in the Knowledge Society*, 18(3), 7-14. doi:10.14201/eks2017183714
- García-Peñalvo, F. J. (2018). Proyecto Docente e Investigador. Catedrático de Universidad. Perfil Docente: Ingeniería del Software y Gobierno de Tecnologías de la Información. Perfil Investigador: Tecnologías del Aprendizaje. Área de Ciencia de la Computación e Inteligencia Artificial. Salamanca, España: Departamento de Informática y Automática. Universidad de Salamanca. doi:10.5281/zenodo.1237989
- García-Peñalvo, F. J., & Cruz-Benito, J. (2016). Computational thinking in pre-university education. In F. J. García-Peñalvo (Ed.), *Proceedings of the Fourth International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'16) (Salamanca, Spain, November 2-4, 2016)* (pp. 13-17). New York, NY, USA: ACM.



References

- García-Peñalvo, F. J., Cruz-Benito, J., Conde, M. Á., & Griffiths, D. (2014a). Virtual placements for informatics students in open source business across Europe 2014 *IEEE Frontiers in Education Conference Proceedings (October 22-25, 2014 Madrid, Spain)* (pp. 2551-2555). USA: IEEE.
- García-Peñalvo, F. J., Cruz-Benito, J., Conde, M. Á., & Griffiths, D. (2015). Semester of Code: Piloting Virtual Placements for Informatics across Europe *Proceedings of Global Engineering Education Conference, EDUCON 2015. Tallinn, Estonia, 18-20 March 2015* (pp. 567-576). USA: IEEE.
- García-Peñalvo, F. J., Cruz-Benito, J., Griffiths, D., & Achilleos, A. P. (2016a). Virtual placements management process supported by technology: Proposal and firsts results of the Semester of Code. *IEEE Revista Iberoamericana de Tecnologías del Aprendizaje (IEEE RITA)*, 11(1), 47-54. doi:10.1109/RITA.2016.2518461
- García-Peñalvo, F. J., Cruz-Benito, J., Griffiths, D., Sharples, P., Willson, S., Johnson, M., . . . Lee, S. (2014b). Developing Win-Win Solutions for Virtual Placements in Informatics: The VALS Case. In F. J. García-Peñalvo (Ed.), *Proceedings of the Second International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'14)* (pp. 733-738). New York, USA: ACM.
- García-Peñalvo, F. J., & Durán-Escudero, J. (2017). Interaction design principles in WYRED platform. In P. Zaphiris & A. Ioannou (Eds.), *Learning and Collaboration Technologies. Technology in Education. 4th International Conference, LCT 2017. Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9–14, 2017. Proceedings, Part II* (pp. 371-381). Switzerland: Springer International Publishing. doi:10.1007/978-3-319-58515-4_29
- García-Peñalvo, F. J., Griffiths, D., Cruz-Benito, J., Veenendaal, E., Achilleos, A. P., Wilson, S., & Kapitsaki, G. (2016b). Understanding the barriers to virtual student placements in the Semester of Code. *Education in the Knowledge Society*, 17(1), 147-173. doi:10.14201/eks2016171147173
- García-Peñalvo, F. J., & Kearney, N. A. (2016). Networked youth research for empowerment in digital society. The WYRED project. In F. J. García-Peñalvo (Ed.), *Proceedings of the Fourth International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'16) (Salamanca, Spain, November 2-4, 2016)* (pp. 3-9). New York, NY, USA: ACM.



References

- García-Peñalvo, F. J., Llorens Largo, F., Molero Prieto, X., & Vendrell Vidal, E. (2017). Educación en Informática sub 18 (EI<18). *ReVisión*, 10(2), 13-18.
- García-Peñalvo, F. J., & Mendes, J. A. (2018). Exploring the computational thinking effects in pre-university education. *Computers in Human Behavior*, 80, 407-411. doi:10.1016/j.chb.2017.12.005
- García-Peñalvo, F. J., Reimann, D., Tuul, M., Rees, A., & Jormanainen, I. (2016c). *An overview of the most relevant literature on coding and computational thinking with emphasis on the relevant issues for teachers*. Belgium: TACCLE3 Consortium. doi:10.5281/zenodo.165123
- GRIAL Group. (2018). *GRIAL Research Group Scientific Production Report (2011-2017). Version 2.0* (GRIAL-TR-2018-004). Salamanca, Spain: GRIAL Research Group, University of Salamanca. Retrieved from <https://goo.gl/kiUFn9>
- Llorens Largo, F., García-Peñalvo, F. J., Molero Prieto, X., & Vendrell Vidal, E. (2017). La enseñanza de la informática, la programación y el pensamiento computacional en los estudios preuniversitarios. *Education in the Knowledge Society*, 18(2), 7-17. doi:10.14201/eks2017182717



This work may be cited as follows

García-Peñalvo, F. J. (2018). University of Salamanca is no place (only) for humanities. A STEM approach and beyond. Salamanca, Spain: GRIAL group. doi:10.5281/zenodo.1255762

This presentation is also available at: <https://goo.gl/pHkQKp>



University of Salamanca is no place (only) for humanities

A STEM approach and beyond

Prof. Dr. Francisco José García-Peñalvo

Computer Science Department

Research Institute for Educational Science

GRIAL Research Group

University of Salamanca

fgarcia@usal.es

<http://grial.usal.es>

<http://twitter.com/frangp>

Coimbra Group Annual Conference and General Assembly

STEM Working Group

Salamanca, May 30th 2018